

Application No.: 10/816,212
Office Action of November 29, 2005
Response dated March 28, 2006
Attorney Docket No.: R083

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Amendment to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application

Listing of Claims

1. (cancelled)
2. (cancelled)
3. (currently amended) The A divider block assembly of claim 2 for distributing a low volume of a fluid at high pressure, comprising:
a base plate including an inlet section, an end section, and one or more intermediate base sections, each intermediate base section including a fluid outlet;
one or more divider block sections mounted on the one or more intermediate base sections, the divider block section having a piston bore for receiving a piston; and
a balancing valve at each of the fluid outlets, in which the intermediate base plate each fluid outlet includes including non-pipe threads and a sealing device to for attaching the balancing valve to the intermediate base section.
4. (currently amended) The divider block assembly of claim 2-3 in which multiple divider block sections are mounted on multiple intermediate base sections, and in which the balancing valves maintain the output pressures within 500 psi at each fluid outlet.
5. (currently amended) The divider block assembly of claim 1-3 in which each divider block section is attached to a corresponding intermediate base section by more than two threaded fasteners.

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6. (original) The divider block assembly of claim 5 in which each divider block section is attached to a corresponding intermediate base section by four threaded fasteners.

7. (currently amended) The divider block assembly of claim 1-3 in which the inlet section, the end section, and the one or more intermediate base sections are held together by four or more heat treated fasteners having diameters of greater than 0.300 in. and further comprising o-rings positioned at fluid connections between the connected sections to prevent leaking of fluid flowing between sections.

8. (currently amended) The divider block assembly of claim 1-3 in which the inlet section and at least one intermediate base section are combined into a single block.

9. (currently amended) The divider block assembly of claim 1-3 in which the end section and at least one intermediate base section are combined into a single block.

10. (currently amended) The divider block assembly of claim 1-3 in which the base plate comprises a single block including the inlet section and an intermediate section, a single block including an end section and an intermediate section, and an additional intermediate section.

11. (currently amended) ~~A~~ The divider block assembly of claim 3 in which each divider block section for use at high fluid pressures and having a bore for receiving a piston, the includes solid material around the bore, the solid material having sufficient thickness to resist significant deformation at pressures greater than 2000 psi, each fluid outlet including non-pipe threads and a sealing device to attaching the balancing valve to the intermediate base section.

12. (currently amended) The divider block ~~section~~ assembly of claim 11 in which the bore expands less than 0.00001 in. at 2000 psi.

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13. (currently amended) The divider block ~~section~~assembly of claim 11 in which the bore expands less than 0.00001 in. at 3,500 psi.
14. (currently amended) The divider block ~~section~~assembly of claim 11 in which the bore has an inner diameter of 0.30 in. or greater and expands less than 0.000075 in. at 3,000 psi.
15. (currently amended) The divider block ~~section~~assembly of claim 11 in which the bore has an inner diameter of 0.30 in. or greater and expands less than 0.00005 in. at 3,000 psi.
16. (currently amended) The divider block ~~section~~assembly of claim 11 in which the bore has an inner diameter of 0.15 in. or greater and expands less than 0.000015 in. at 3,000 psi.
17. (currently amended) The divider block ~~section~~assembly of claim 11 in which the bore has an inner diameter of 0.300 in. or greater and expands less than 0.00001 in. at 3,000 psi.
18. (currently amended) The divider block ~~section~~assembly of claim 11 in which the bore has an inner diameter of about 0.360 in. or greater and expands less than 0.0001 in. at 3,000 psi.
19. (currently amended) The divider block ~~section~~assembly of claim 11 in which the bore has an inner diameter of about 0.360 in. or greater and expands less than 0.00005 in. at 3,000 psi.
20. (currently amended) The divider block ~~section~~assembly of claim 11 in which the solid material around the bore having sufficient thickness to resist significant deformation at 7,500 psi.
21. (currently amended) The divider block ~~section~~assembly of claim 11 in which the solid material around the bore having sufficient thickness to resist significant deformation at 10,000 psi.
22. (currently amended) The divider block ~~section~~assembly of claim 11 in which the solid material around the bore has a thickness of at least .400 in. in at its thinnest part.

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23. (currently amended) The divider block ~~section~~assembly of claim 11 in which the volume of fluid dispensed is accurate to within 10% at 3000 psi.

24. (currently amended) The divider block ~~section~~assembly of claim 11 in which the volume of fluid dispensed is accurate to within 10% at 5000 psi.

25. (currently amended) The divider block ~~section~~assembly of claim 11 in which the volume of fluid dispensed is accurate to within 5% at 3000 psi.

26. (currently amended) The divider block ~~section~~assembly of claim 11 in which the volume of fluid dispensed is accurate to within 5% at 5000 psi.